

Summary of selected constituents in the California Aqueduct

(August 2013 to July 2014)

The Department of Water Resources (DWR) collects surface water samples above and below groundwater turn-in points along the California Aqueduct. When non-project water is conveyed into the California Aqueduct, samples are also collected at or near the turn-in locations. The samples are analyzed for a number of constituents by DWR's Bryte Laboratory and the data are available at: <http://www.water.ca.gov/waterdatalibrary/>.

Table 1 summarizes total and monthly turn-in volumes in acre-feet (AF) from August 1, 2013 to July 31, 2014. Table 2 summarizes average concentrations of selected constituents in the California Aqueduct above and below the turn-in locations for the same period. There was a slight difference (-.002 mg/L) in average monthly dissolved arsenic concentration in the California Aqueduct between the above and below turn-in locations.

Table 1. Total and Monthly Turn-in Volumes in acre-feet

Year	Month	WWD	SWSD	CVC	KWB Canal	WKWD	AEWSD	WRMWSD	Monthly Total	Chrisman Pumping
2013	August	0	49	278	14,544	0	17	197	15,085	104,520
2013	September	0	5,561	416	0	0	700	0	6,677	107,828
2013	October	0	16,217	5,387	4,150	0	2,623	0	28,377	108,593
2013	November	1,403	21,547	5,885	13,554	319	6,746	697	50,151	103,256
2013	December	1,364	21,277	11,303	17,748	962	8,725	849	62,228	88,940
2014	January	1,757	12,553	9,318	11,641	452	6,759	654	43,134	61,740
2014	February	0	3,730	12,103	19,253	942	5,313	1,445	42,786	44,709
2014	March	0	4,277	17,648	20,298	1,043	3,074	2,182	48,522	40,530
2014	April	0	3,235	16,094	17,665	1,008	3,248	2,291	43,541	30,363
2014	May	0	582	16,328	18,683	805	395	2,132	38,925	24,924
2014	June	0	93	5,546	17,935	916	2,693	2,033	29,216	30,689
2014	July	583	56	6,123	17,434	767	1,189	2,065	28,217	77,621
Total (AF)		5,107	89,177	106,429	172,905	7,214	41,482	14,545	436,859	823,713

WWD = Westlands Water District; SWSD = Semitropic Water Storage District; CVC = Cross Valley Canal (operated by Kern County Water Agency); WKWD = West Kern Water District; Arvin-Edison Water Storage District; WRMWSD = Wheeler Ridge-Maricopa Storage District.

Table 2. Water Quality in the California Aqueduct Above and Below Turn-ins

		Arsenic (mg/L)	Bromide (mg/L)	Nitrate (mg/L)	Sulfate (mg/L)	TDS (mg/L)	TOC (mg/L)
Above Turn-in location	Check 21	0.003	0.35	0.85	48	356	4
	(number of samples)	15	13	13	13	13	12
Below Turn-in location	Checks 39 and 41	0.005	0.27	4.6	59	304	2
	(number of samples)	25	25	25	25	25	12
Average Increase/Decrease		-0.002	0.08	-3.75	-11	52	2

All values in mg/L (ppm), DWR data only.